BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains balance main road cross roads of Someshwara nagara

Measurement Sheet

First and Final Bill

Item No:	2
Item Name:	KSRRB 300- Earthwork for road, drains and similar works KSRRB 300-1 excavation by manual means in ordinary siol involving an average horizontal throw upto 2 meters and an average lift upto 0.5m , excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3(P. No -143, I No-19.1)

Premeasurement recorded on:

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							275.33	Cum	210.09	57844.08

Item No:	4
Item Name:	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89 cum and fine aggregtes @ 0.46cum, in foundation machanically mixed, placed in foundation and compacted by vibration including curing 14 days including cost of all materials, labour, HOM curing form worka,scaffolding and centring complete as per specifications. (Page No.222 Item No.27.18)

Premeasurement recorded on:

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							4.93	Cum	5313.48	26195.46

Item No:	6
Item Name:	KSRRB M 2300-14 Providing T.M.T steel reinforcement for R.C C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 239 Item No 29.29.2 SR 2018-19

Premeasurement recorded on:

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							1.07	Tonne	72512.40	77588.27

Item No:	8
Item Name:	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)

Premeasurement recorded on:

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							92.16	Cum	1955.03	180175.56

Ramanjaneiah

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Item No:	9										
Item Name:	KSRRB M400-17. Providing, laying,spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired surface and compacting with vibratory roller to achive the desired density complete as per specifications.MORTH Specification No.406 (I No-20.18,P No-155)										
Premeasurement recorded on:											
SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							**122.88**	**Cum**	**1961.26**	**240999.63**
Item No:	**10**										
Item Name:	KSRRB M500-6.Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision .Item No.-21.6 ,Page No.158										
Premeasurement recorded on:											
SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							**614.40**	**Sqm**	**28.05**	**17233.92**
Item No:	**11**										
Item Name:	KSRRB 500-17 Provding and laying dense geaded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision 21.17.6 -do- using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75mm) with 4.5 % VG-30 Bitumen ,(Item No-21.17.6 , Page No-160)										
Premeasurement recorded on:											
SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							**30.72**	**Cum**	**6468.49**	**198619.85**
Item No:	**12**										
Item Name:	KSRRB M500-6.Providing and applying Tack coat using 80/100 bitumen(VG 10) on prepared black topped surface at 2.5 kg per 10 sqm,heating bituman in boiler fitted with spray set (excluding cleaning of road surface)including cost of materials,labour, HOM complete as per specifications. Item No.-21.7 ,Page No.161										
Premeasurement recorded on:											
SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Vide Pre measurment page no							**2246.86**	**Sqm**	**12.47**	**28018.34**

Contractor Representative

Ramangeerath

Asst Engineer

Consultant Representative

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no- 04

Measurement Sheet

First and Final Bill

Item No: 1

Item Name: Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No27, I No-5.33)

Measurement recorded on

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	sharadanagara 5th cross road to mathru layout LHS								0.00			
	0.00	30.00	1	30.00	0.90				27.00			
	120.00	150.00	1	30.00	0.90				27.00			
	150.00	160.00	1	10.00	0.90				9.00			
	sharadanagara 5th cross road to mathru layout RHS								0.00			
	90.00	120.00	1	30.00	0.90				27.00			
	120.00	150.00	1	30.00	0.90				27.00			
	Sharadanagar 4th main road house no 116 LHS								0.00			
	0.00	30.00	1	30.00	0.90				27.00			
	30.00	60.00	1	30.00	0.90				27.00			
	60.00	75.00	1	15.00	0.90				13.50			
	Sharadanagar 4th main road house no 116 RHS								0.00			
	0.00	30.00	1	30.00	0.90				27.00			
	30.00	60.00	1	30.00	0.90				27.00			
								Total Qty Work Done	**238.50**	**Sqm**		
								Qty Payable in this bill	**184.32**	**Sqm**	**109.07**	**20103.78**

Contractor Representative

Asst Engineer

Consultant Representative

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Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no-

Measurement Sheet

First and Final Bill

Item No:	5
Item Name:	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1

Measurement recorded on:

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Cross road New culverts Bottom Raft											
	0.00	7.30	1	7.30	1.20	1.20	1.20	0.23	2.01			
	0.00	7.30	1	7.30	1.20	1.20	1.20	0.23	2.01			
	0.00	7.30	1	7.30	1.20	1.20	1.20	0.23	2.01			
	Cross road New culverts Side wall											
	0.00	7.30	2	7.30	0.23	0.23	0.23	0.60	2.01			
	0.00	7.30	2	7.30	0.23	0.23	0.23	0.60	2.01			
	0.00	7.30	2	7.30	0.23	0.23	0.23	0.60	2.01			
	Total Qty Work Done								**12.09**	**Cum**		
	Qty Payable in this bill								**12.09**	**Cum**	**6928.80**	**83760.88**

Contractor Representative

Asst Engineer

18/12/2020

Consultant Representative

Asst Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no- 04

Measurement Sheet

First and Final Bill

Item No: 7

Item Name: Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)

Measurement recorded on:

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Cross road New culverts											
	0.00	7.30	1	7.30	1.20				8.76			
	0.00	7.30	1	7.30	1.20				8.76			
	0.00	7.30	1	7.30	1.20				8.76			
								Total Qty Work Done	26.28	Sqm		
								Qty Payable in this bill	26.28	Sqm	5309.64	139537.34

Contractor Representative

Ramadevigeerah

Asst Engineer

22/12/2020

Consultant Representative

C&FC Saulin

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Asst Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no- 04

Measurement Sheet

First and Final Bill

Item No: **13**

Item Name: 21.78.12 Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laing with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. ,using 40-60 TPH capacity HMP with mechanical paver II(30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bituminous (60/70grade) and 0.43% of plastomeric thermoplastics (Waste

Measurement recorded on:

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Sharada nagar 2nd main road											
	0.00	30.00	1	30.00	5.40	5.30	5.35	0.03	4.82			
	30.00	60.00	1	30.00	5.30	4.60	4.95	0.03	4.46			
	60.00	90.00	1	30.00	4.60	4.60	4.60	0.03	4.14			
	90.00	120.00	1	30.00	4.60	5.00	4.80	0.03	4.32			
	120.00	141.40	1	21.40	5.00	4.80	4.90	0.03	3.15			
	sharadanagara 5th cross road to mathru layout											
	0.00	30.00	1	30.00	4.80	5.00	4.90	0.04	5.88			
	30.00	60.00	1	30.00	5.00	6.00	5.50	0.04	6.60			
	60.00	90.00	1	30.00	6.00	5.40	5.70	0.04	6.84			
	90.00	120.00	1	30.00	5.40	6.90	6.15	0.04	7.38			
	120.00	150.00	1	30.00	6.90	6.70	6.80	0.04	8.16			
	150.00	160.00	1	10.00	6.70	7.70	7.20	0.04	2.88			
	Sharadanagar 4th main road house no 116								0.00			
	0.00	30.00	1	30.00	6.40	6.30	6.35	0.04	7.62			
	30.00	60.00	1	30.00	6.30	6.70	6.50	0.04	7.80			
	60.00	75.00	1	15.00	6.70	7.70	7.20	0.03	3.24			
	Infront of TIFR								0.00			
	0.00	30.00	1	30.00	3.10	4.00	3.55	0.03	3.20			
							Total Qty Work Done		80.47	Cum		
							Qty Payable in this bill		78.56	Cum	7598.83	596964.05

Contractor Representative

Ramugeerwal

Asst Engineer

9/01/2021

Consultant Representative

C&fc

Gaulin

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Asst.Executive Engineer
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CIVIL PRO

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no- 04

Measurement Sheet

First and Final Bill

Item No: **13**

Item Name: 21.78.12 Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laing with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. ,using 40-60 TPH capacity HMP with mechanical paver II(30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bituminous (60/70grade) and 0.43% of plastomeric thermoplastics (Waste

Measurement recorded on:

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Sharada nagar 2nd main road											
	0.00	30.00	1	30.00	5.40	5.30	5.35	0.03	4.82			
	30.00	60.00	1	30.00	5.30	4.60	4.95	0.03	4.46			
	60.00	90.00	1	30.00	4.60	4.60	4.60	0.03	4.14			
	90.00	120.00	1	30.00	4.60	5.00	4.80	0.03	4.32			
	120.00	141.40	1	21.40	5.00	4.80	4.90	0.03	3.15			
	sharadanagara 5th cross road to mathru layout											
	0.00	30.00	1	30.00	4.80	5.00	4.90	0.04	5.88			
	30.00	60.00	1	30.00	5.00	6.00	5.50	0.04	6.60			
	60.00	90.00	1	30.00	6.00	5.40	5.70	0.04	6.84			
	90.00	120.00	1	30.00	5.40	6.90	6.15	0.04	7.38			
	120.00	150.00	1	30.00	6.90	6.70	6.80	0.04	8.16			
	150.00	160.00	1	10.00	6.70	7.70	7.20	0.04	2.88			
	Sharadanagar 4th main road house no 116								0.00			
	0.00	30.00	1	30.00	6.40	6.30	6.35	0.04	7.62			
	30.00	60.00	1	30.00	6.30	6.70	6.50	0.04	7.80			
	60.00	75.00	1	15.00	6.70	7.70	7.20	0.03	3.24			
	Infront of TIFR								0.00			
	0.00	30.00	1	30.00	3.10	4.00	3.55	0.03	3.20			
								Total Qty Work Done	80.47	Cum		
								Qty Payable in this bill	78.56	Cum	7598.83	596964.08

Contractor Representative

Ramugeervah

Asst Engineer

9/01/2021

Consultant Representative

C&C

Asst.Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no- 04

Measurement Sheet

First and Final Bill

Item No: **14**

Item Name: KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound Reflectrising Glass Beads on Bituminous Surface / Concrete Surface :Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standars specified.The finished surface to be level, uniform and free from streaks and holes complete as per Specifications MORTH

Measurement recorded on:

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Sharada nagar 2nd main road											
	0.00	30.00	2.5	30.00	0.10	0.10	0.10		7.50			
	30.00	60.00	2.5	30.00	0.10	0.10	0.10		7.50			
	60.00	90.00	2.5	30.00	0.10	0.10	0.10		7.50			
	90.00	120.00	2.5	30.00	0.10	0.10	0.10		7.50			
	120.00	141.40	2.5	21.40	0.10	0.10	0.10		5.35			
	sharadanagara 5th cross road to mathru layout								0.00			
	0.00	30.00	2.5	30.00	0.10	0.10	0.10		7.50			
	30.00	60.00	2.5	30.00	0.10	0.10	0.10		7.50			
	60.00	90.00	2.5	30.00	0.10	0.10	0.10		7.50			
	90.00	120.00	2.5	30.00	0.10	0.10	0.10		7.50			
	120.00	150.00	2.5	30.00	0.10	0.10	0.10		7.50			
	150.00	160.00	2.5	10.00	0.10	0.10	0.10		2.50			
	Sharadanagar 4th main road house no 116								0.00			
	0.00	30.00	2.5	30.00	0.10	0.10	0.10		7.50			
	30.00	60.00	2.5	30.00	0.10	0.10	0.10		7.50			
	60.00	75.00	2.5	15.00	0.10	0.10	0.10		3.75			
	Infront of TIFR								0.00			
	0.00	30.00	2.5	30.00	0.10	0.10	0.10		7.50			
								Total Qty Work Done	101.60	Sqm		
								Qty Payable in this bill	101.60	Sqm	445.65	45278.04

Contractor Representative

Ramanjaneiah

Asst Engineer 23/04/2021

Consultant Representative

C&FC

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Asst Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer Yalahanka Devision, Yelhanka Zone

Name of Work: Improvements to roads and drains main road cross roads of Sharada nagara ward no- 04

Measurement Sheet

First and Final Bill

Item No: 15

Item Name: KSRRB M800-35 Supply and Installation of Moulded Shank /raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styme) moulded body and reflective pane;s with micro prismatic lens capable of provididng tital internal reflection of the light enerting the lens face and shall support a load of 16000 kg tested in accorande to Specifications of Catergory A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997 The height, width and lengh shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slpoe to the base shall shanks, (of diameter not less than 19mm and height not less than 30 mm)nfrommthe body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, wihtout nails and using epoxy resin base,d adhesive as per manufaturer's recommendaion and complete as directed by the engineer.(Item No- 24.41 Page No-

Measurement recorded on

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS	Rate	Amount
	Sharada nagar 2nd main road											
	0.00	30.00	2.0	30.00					60.00			
	30.00	60.00	2.0	30.00					60.00			
	60.00	90.00	2.0	30.00					60.00			
	90.00	120.00	2.0	30.00					60.00			
	120.00	141.40	2.0	21.40					42.80			
	sharadanagara 5th cross road to mathru layout								0.00			
	0.00	30.00	2.0	30.00					60.00			
	30.00	60.00	2.0	30.00					60.00			
	60.00	90.00	2.0	30.00					60.00			
	90.00	120.00	2.0	30.00					60.00			
	120.00	150.00	2.0	30.00					60.00			
	150.00	160.00	2.0	10.00					20.00			
	Sharadanagar 4th main road house no 116								0.00			
	0.00	30.00	2.0	30.00					60.00			
	30.00	60.00	2.0	30.00					60.00			
	60.00	75.00	2.0	15.00					30.00			
	Infront of TIFR								0.00			
	0.00	30.00	2.0	30.00					60.00			
									812.80			
								Total Qty Work Done	**125.05 Nos**			
								Qty Payable in this bill	**126.00 Nos**		350.08	44110.08
									Net Amount			2178936.50
									Add 12% GST			261472.38
									Grand Total Amount			2440408.88

M. S. B.
Contractor Representative

Ramagowda
Asst Engineer

Consultant Representative

E&FC

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ಯಲಹಂಕ ಉಪವಿಭಾಗ.
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

28/01/2021